KHARAKER, G.M., inzh.

The fourth all-Union conference on advanced technology, mechanization and automation in the machinery industry. Vest.mashinostr. 45 no.10:79-80 0 '65. (MIRA 18:11)

#### KMARAFPASH, A.la.

Block preservation and preparation of native place at regional and district hospitals. Probl. govat. 1 perel. krozi 9 no.8:53-54 Ag 164. (MIPA 18:3)

1. dayonnaya bol'nitsa v posobke Totyukie irim rukogo kraya.

A MALLANDANA, L. SUPRUNOV, A., inzh.; SHORODINSKIY, A., inzh.; KHARAKHASH. V., inzh. Installation of pneumatic transportation in the grain cleaning section of the Kharkor Flour Mill No.3. Muk.-elev. prom. 22 no.10: 16-19 0 157. 1. Khar kovskoye oblastnoye upravleniye khleboproduktov. (Kharkov-Flour mills) (Pneumatic-tube transportation)

SUPRUNOV, A., inzh.; KHARAKHASH, V., inzh.; MALYY, N., inzh.

Over-all mechanization in the packing department of the Flour Mill No.8 in Volchansk. A. Suprunov, V. Kharakhash, N. Halyi. Muk.-elev.prom. 24 no.3:18-19 Mr 158. (MIRA 12:9)

1. Khar kovskoye oblastnove upravleniye khleboproduktov (for Suprunov, Khardkhash). 2. Volchanskaya mel'nitsa No.8 (for Malyy). (Volchansk--Flour mills--Equipment and supplies)

CIA-RDP86-00513R000721810005-7" **APPROVED FOR RELEASE: 09/17/2001** 

SUPRUIOV, A., inzh.; KHARAKHASH. V.

Mechanization of standard gransries located away from railroads.

Muk.-elev.prom. 25 no.12:18-19 D '59. (MIRA 13:4)

1. Khar'kovskoye upravleniye khleboproduktov.

(Orain-handling machinery)

SUPRUMOV., inzh.; KHARAKHASH, V., inzh.

Plans for feedmilling sections of corn-processing plants. Muk.-elev. prom. 26 no.9:19-20 8 160. (MIRA 13:9)

1. Otdel mukomolino-krypyanykh predpriatiy Kharikovskogo upravleniza khleboproductov.

(Feed mills)

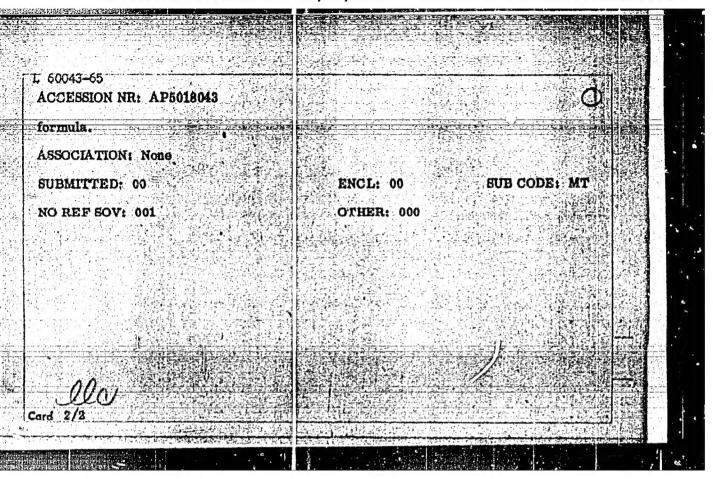
KHARAKHASH, Viktor Andreyevich; SOKOLOVSKIY, M.V., inzh., red.;
RIKBERG, D.B., red.; GOINOSTAYPOL'SKAYA, H.S., tekhn. red.

[Cylindrical reducing gears; reference manual] Reduktory tsilindricheskie; spravoch oe rukovodstvo. Moskva, Mashgiz, 1961. 146 p. (MIRA 15:2)

(Gearing, 6jur)

L 60043-65 EWT(m)/EP ACCESSION NR: AP50	18043	UR/0191/65/000/007 678-416.017	, 32	
AUTHOR: Zybin, Yu.	A.; Samsonov, V. G.;	Kharakhash, V. G.; I	orfman, E. M. B	
TITLE: Lined plastics	a i prince comment na distribui di 🛣	Participation of the second		
SOURCE: Plastichesk TOPIC TAGS: plastic plastic mechanical pro	matteral notyfit proet	5, 64 hylene resin, polyethyl cleavage strength, lin	ene, adhesive bonding ed plastic	
be deposited on metal of these surfaces. To ma erials, forming lin fluor ethylene resins a	surfaces because they eliminate this disadva ned plastics which comb and polyethylene with the	proethylene resins and do not adhere without s intage, such plastics ar bine the high chemical he adhesive properties g ard cleavage tests. I	e joined to other stability of poly- of other materials, n many cases, it is	
tenne wont to brothe the	hehavior of the a ingaic	on onds under dynamic tests is described. It	TOROS AND TRIBACE	
the basis for standard	zed testing of lired ple	astics bonded to metals	Orig. art. has: 1	
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EWP(1)/EWT(m)/I/EWP(t) RM/JD/HN/WE L 27221-66 IJP(c) UR/ AH6002129 ACC NR Monograph 40 Samsonov, Vladimir Georgiyevich; Kharakhash, Viktor Georgiyevich; B+1 Mironenko, Nikolay Ivanovich; Safonov, Aleksandr Ivanovich; Pesikov, Ruvim Semenovich; Alekseyev, Nikolay Nikolayevich (Protivokorrozionnyye plastmassovyye Anticorrosion | plastic coatings pokrytiya) Klev, Izd-vo "Tikhnika," 1965. 89 p. illus., biblio. 5000 copies printed. TOPIC TAGS: material control, plastic coating, corrosion inhibition PURPOSE AND COVERAGE: The booklet deals with the problems of using polymeric materials for ancicorrosion protection of the inner surfaces of tubes, pipelinus, and valves. The use of these materials makes it possible to economize on nonferrous metals and stainless steel las we'll as to increase the useful life of ferrous metals. Technological methods are described, and economic data on the protection of equipment with polymeric materials are presented. The booklet is intended for specialists in the chemical and food industries who deal with the problems of anticorrosion protection of plant appara:us. There are 47 references, of which 43 are Soviet. TABLE OF CONTENTS: Card 1/2 UDC: 678.026

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KHARAKHASH, V.G., inzh.; YAROZHEVSKIY, S.A., inzh.; ALEKSEYEV, N.N., inzh.; KOLESNIK, N.I., inzh.; FRIDMAN, O.A., inzh.; GRUBA, A.I., inzh.; GRIN', L.V.; PETRAKOV, V.I.

Electric insulation coatings on the inside surface of battery boxes of electric mine locomotives. Ugol' Ukr. 10 no. 1: 31-33 Ja '66. (MIRA 18:12)

1. Ukrainskiy nauch 10-issledovatel skiy institut plasticheskikh mass.

ACC NR. AP7003537

SOURCE CODE:

UR/0386/67/005/001/0024/0025

AUTHOR: Garif'yanov, N. S.; Khabibullin, B. M.; Kharakhash'yan, E. G.; Bezzubov, A.L. ORG: Kazan' Physicotechnical Institute, Academy of Sciences SSSR (Kazanskiy fiziko-

tekhnicheskiy institut Akademii nauk SSSR)

TITLE: Electron paramagnetic resonance in lithium containing impurities of group IIB metals

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ms v redaktsiyu. Prilozheniye, v. 5, no. 1, 1967, 24-25

TOPIC TAGS: lithium, electron paramagnetic resonance, spin orbit relaxation, spin orbit interaction, conduction electron, epr spectrum, line width

ABSTRACT: To check whether the main mechanism of spin relaxation is spin-orbit interaction of the conduction electrons with the impurity atoms, the authors investigated the effect of small admixtures of Zi, Cd, and Hg on the EPR line width of Li. The initial material was  $\sim 99\%$  pure LE-1 lithium (measured relaxation time  $T_1 = 9.4 \times 10^{-9}$ sec). The alloy was prepared in an atmosphere of pure helium and dispersed by ultrasound in dehydrated paraffin to an average particle size  $\lesssim 8~\mu$ . The measurements were made at 9320 MHz and room temperature. It follows from the experimental data that the peak line width 6H increases linear y with increasing c in the investigated concentration interval. An estimate shows that the spin-orbit interaction of electrons with the impurity atoms in the metal does not differ in order of magnitude from its value

Card 1/2

## ACC NR: AP7003537

for the free atom. Consequently, the expected effect of screening the spin-orbit interaction by conduction electrons is nonexistent. The contrary is more likely, that if the presented estimates are correct the redistribution of the electron density near the impurity atom leads to an antiscreening effect which apparently has a tendency to grow with increasing Z. The authors thank Professor B. M. Kozyrev for continuous interest in the work and valuable advice. Orig. art. has: 1 figure, 1 formula, and 1 table.

SUB CODE: 20/ SUBM DATE: 200ct60/ OTH REF: 004

Card 2/2

S/120/60/000/005/041/051 E032/E314

AUTHORS: Sevast'yanov, B.K, and Kharakhash'yan, E.G.

TITLE: Torsional Magnetic Balance with DC Compensation of the Displacement of the Specimen

PERIODICAL: Prihory i teklinika eksperimenta, 1960, No. 5, pp. 135 - 137

TEXT: A description is given of a torsional balance for the range 100 - 10 dyn; cm. The balance can be used to determine the magnetic moments/in a wide temperature range, right down to helium temperatures. The balance is shown schematically in Fig. 1. The aluminium frame 8 is suspended on a thin phosphor bronze wire having an elastic constant of

 $3 \times 10^{-2}$  dyne.cm/rad. The aluminium frame carries two coils, namely, a compensation and a calibration coil. These coils consist of 50 turns of 0.1 dia. wire of type  $\Pi$ ) (PE). It also carries a plane mirror 6 and a glass rod, to which the specimen 12 is attached. At the lower end, the glass rod is kept in position by the quartz filament 18 (10  $\mu$  in diameter). The latter filament is kept taut by the phosphor Card 1/3

S/120/60/000/005/041/051 E032/E314

Torsional Magnetic Balance with DC Compensation of the Displacement of the Specimen

bronze spring 13. The compensating and calibrating currents are supplied to the coils by special leads in the form of silver foils (25 x 0.5 mm<sup>2</sup>). The phosphor bronze filament serves as a common current lead for the two coils. The suspended system can be assembled and adjusted outside the glass container tube 4. The plane mirror carried by the aluminium frame is illuminated through a rectangular slit so that in the absence of a couple acting on the specimen, one-half of the reflected image falls on one cell and the other on another cell, the two cells being connected to a DC amplifier, as shown in Fig. 2. The magnetic field applied to the specimen 12 is produced by the external electromagnet 15, while the calibrating and compensating coils are in the field of the permanent magnet 10.

Card 2/3

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٠,	ACCESSION NR: AP5011884	UR/0120/65/000/002/0126/0130		
:	AUTHOR: Colenishchev-Kutuzov, V. A.;	harakhachima F c		
	TITLE: Acoustic paramagnetic spectrom			
	SOURCE: Pribory i tekhnika eksperimen	for the second s		
	TOPIC TAGS: spectrometer, paramagnetic absorption, acoustic resonator	spectrometer, acoustic spectrometer, sound		
	concrutous Renetation at 10-10 Mc Att	absorption by paramagnetics is described; in a temperature range of from liquid-hydro-		
	men placed in a static magnetic field measured. The nonresonance sound about	frect of the acoustical resistance of a speci pon the reaction of the r-f oscillator is		
	eter makes it possible to measure varie  10-6 per cm with the damping factor ga	tions of the absorption factor from 10 <sup>-3</sup> to	Translate 1	
		d c <sub>m</sub> = 10 <sup>-2</sup> to 10 <sup>-3</sup> per cm. A block diagram tic resonator are supplied. Orig. art. has:		
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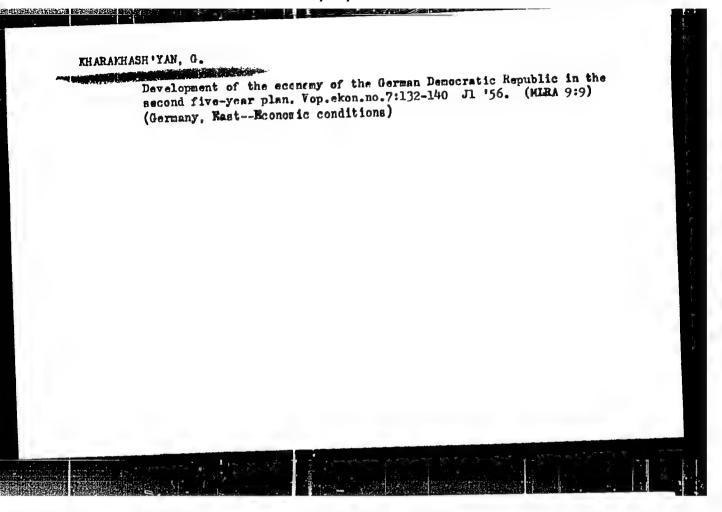
ENT(1)/ENT(m)/EPF(m)/EMP(j)/EEC(t)/T Po-4/Pi-4 IJP(c) WH/GG/RM ... UR/0181/65/007/0C4/1274/1275 ACCESSION NRt AP5010762 AUTHOR: -Garif'yanov. N. 8.; Kharak ash yan. E. G. TITIE: Electron paramagnetic resonuce in supercooled solutions of Fe(III). Ru(III), and Os(III) SCURCE: Fizika tverdogo tela, v. 7, no. 4, 1965, 1274-1275 TOPIC TAGS: supercooled solution, low temperature glass, electron paramagnetic resonance, g factor, spin Hamiltonian, spin lattice relaxation ABSTRACT: The electron paramagneti: resonance method was used to investigate Lowtemperature glass/containing cotche ral complexes with strong covalent bonds:

K<sub>2</sub>Fe(CN)<sub>6</sub>-3d, Na RuCl<sub>6</sub>-4d, and la OsCl<sub>6</sub>-5d. The measurements were made at frequencies 200 and 9320 Mcs at 4.2(.3 The solvents were glycerine for the ferricyanide and weak hydrochloric acid for the ruthenium and osmium double chhorides. At 300 Mcs, narrow asymmetric EPR lines were observed, with a spectroscopic splitting factor close to 2. The g-factor values were 2.3 ± 0.1, 2.0 ± 0.1, and 1.8 ± ± 0.1 for Fe(III), Ru(III), and Oc(III), respectively. At 9320 Mcs, no EPR lines could be observed in the investigated glasses. It is deduced from the measurements Card 1/2

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governs the EPR line width ever parently smaller in the Na <sub>2</sub> 0s0 in the conclusion that in view	ces have very strong anisotropy en at 100 Mcs. The anisotropy Cl6 complexes than in the other w of the strong dependence of t n, it can be assumed that excha	of the g-factor is ap- s. It is pointed out he spin-lattice relexa-	٠.
in these glasses. The existences established earlier by A.	nce of these pairs in single-cr N. Prikhorov and V. B. Fedorov gure, I formulas, and I table.	ystal K2(Fe, Co)(CN)6	
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Nonresonance paramagnetic sound absorption due to spin-lattice relaxation. Fiz. tver tela 5 no.9:2725-2726 S '63. (MIRA 16:10)

1. Fiziko-tekhnicheskiy institut Kazanskogo filiala AN SSSR.



KHARAKHASH'IAN, Grigoriy Mikhauloyich, kand.ekon.nauk; MAKAROV, V., red.;

MOSKVINA, R., tekhn.red.

[Vages under capitalism] Zarabotnaia plata pri kapitalisme.

Moskva, Ixd-vo sotsiel'no-ekon. lit-ry, 1958. 103 p. (MIRA 12:2)

(Vages)

MIROSHNICHENKO, Viktor Savrich, kand. ekon. nauk; KHARAKHASHIYAN, G.M., nauchnyy red.; MAKAROV, I.I., red.; NAZAROVA, A.S., tekhn.

[Toward new goals; a new stage in the development of the world-wide socialist system] Na novykh rubezhakh; novyi etap razvitiia mirovoi sotsialisticheskoi sistemy. Moskva, Izd-vo "Znanie," 1962. 29 p. (Novoe v zhizni, nauke, tekhnike. III Seriia: Ekonomika, no.8) (MIRA 15:5)

BORISOV, Ye.F., dots.; BREGEL¹, E.Ya., prof.; BUKH, Ye.M., dots.;

VASHENTSEVA, V.M., dots.; GOLEVA, Yu.P., kand. ekon. nauk;

COLEVA, A.P., kand. ekon. nauk; DEMOCHKIN, G.V., dots.;

DONABEDOV, G.T., kand. ekon. nauk; YERMOLOVICH, I.I., dots.;

KALYUZHNYY, V.M., dots.; KORNEYEVA, K.G., dots.; KUZNETSOVA,

A.S., prof.; MIROSHNICHENKO, V.S., dots.; MYASNIKOV, I.Ya.,

kand. ekon. nauk; PIBIN, A.S., dots.; SIDOROV, V.A.; SMIRNOV,

A.D., dots.; SOLOV'YEVA, K.F., dots.; SOROKINA, I.F., dots.;

TARUNIN, A.F., kand. ekon. nauk; KHARAKHASH'YAN, G.M., prof.;

MENDEL'SON, A.S., red.; SHVEYTSER, Ye.K., red.; ROTOVA, R.S.,

red.; GARINA, T.D., tekhn. red.

[Economics of socialism] Politicheskaia ekonomiia sotsializma. Moskva, Gos.izd.vo "Vysshaia shkola," 1963. 476 p. (MIRA 17:2)

ALEKSEYEVA, A.A.; ZAKSTEL'SKAYA, L.Ya.; KHARAKHASH'YAN, K.T.

Clinical aspects and treatment of influenza B during a winter outbreak. Sov.med. 24 no.11:90-96 N '60. (MIRA 14:3)

1. Iz kliniki virusnykh zabolevaniy (zav. - prof. N.V.Sergeyev) i laboratorii grippa (zav. - prof. V.M.Zhdanov) Instituta virusologii AMN SSSR (dir. - prof. P.H.Kosyakov). (INFLUENZA)

EPSHTEYN, F.G.; SOROKINA, Y. Yu.; KNYAZEVA, L.D.; ALEKSEYEVA, A.A.; SIEPUSHKIN, A.N.; KHARIKHASHIYAN, K.T.; ORLOVA, N.N.

Clinical course of type C influenza in adults. Zhur. mikrobiol. epid. i immun. 31 no. 10:71-76 0 160. (MIRA 13:12)

1. Iz kliniki Instituta virusologii AMN SSSR na Baze 2-y klinicheskoy infektsionnoy bol'nitsy.

(INFLUENZA)

KITELADZE, Ye.S.; EPSHTEYN, F.(..; ALEKSEYEVA, A.A.; SOROKINA, Ye.Yu.; KNXAZEVA, L.D.; LOZHKIIA, A.N.; ZAKSTEL'SKAYA, L.Ya.; KHARAKHASH'YAN, K.T.

Clinical and virological study of influenza during the 1959 winter outbreak. Vop. virus. 6 no.5:629 6-0 161. (NITA 15:1)

1. Institut virusologii imeni D.I.Ivanovskogo AMN SSSR, Moskva. (INFLUENZA)

#### CIA-RDP86-00513R000721810005-7

#### KHARAKHUIN,A.

Use of the P-332 magnetic starter in charging storage batteries.

Muk.-elev.prom. 21 no.4:18 Ap '55. (MLRA 8:7)

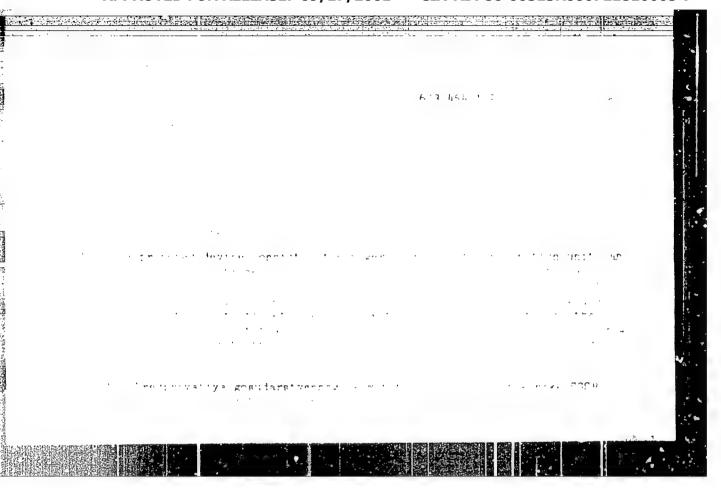
1. Ashkhabadskaya mel'nitsa no.8.
(Storage batteries)

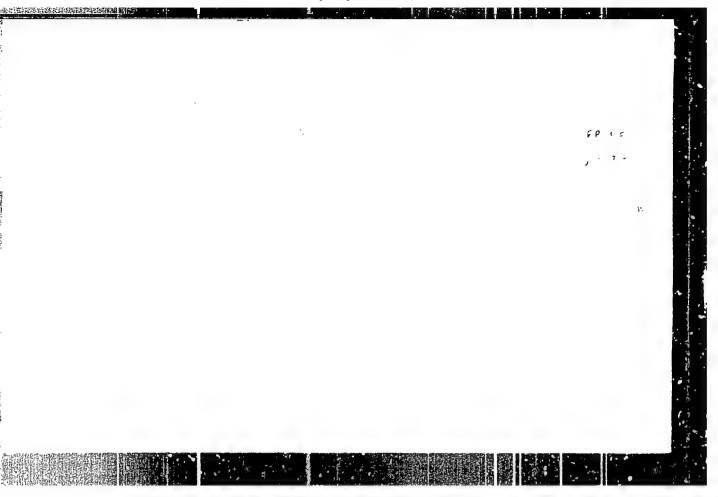
#### KHARAKHNIN, A.V.

Work practice with electrostatic precipitators of the C-180 type.

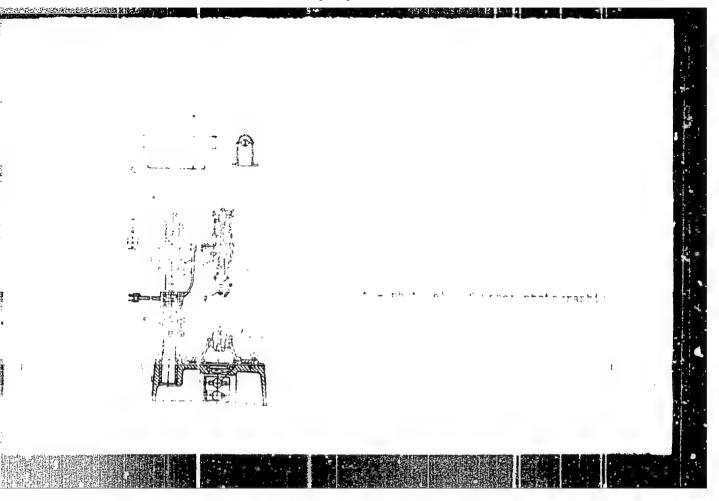
Koks i khim. no.4:52 '60. (NIRA 13:6)

1. Cherepovetskiy metallurgicheskiy savod.
(Cherepovets--Coke industry--Equipment and supplies)

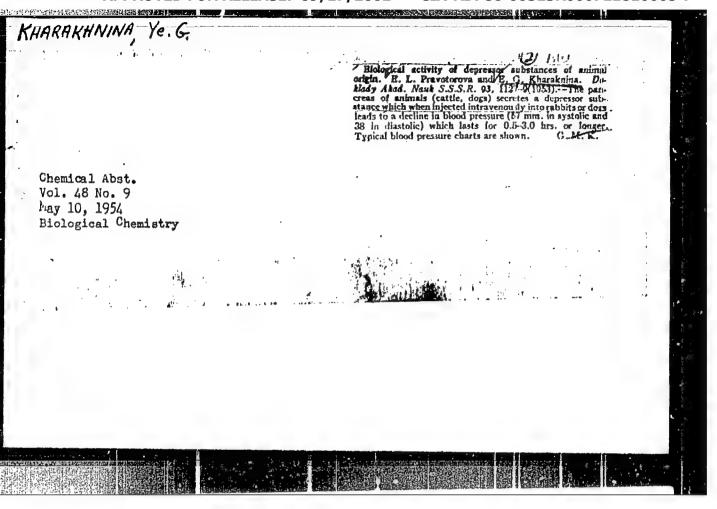




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### KHARAKHINOV, M.K.

Dynamics of air pollution in Moscow from 1948 to 1959. Uch. zap. Mosk. nauch.-issl. inst. san. i gig. no.6:36-40 '60. (MIRA 14:11) (MOSCOW-AIR-POLLUTION)

Concrete filling in a chamber and pillar mining system; from
"Mining Engineering" July 1955. Gor.shur. no.6:60-61 Je '56.

(WIRA 9:8)

(Finland--Mining engineering)

#### "APPROVED FOR RELEASE: 09/17/2001

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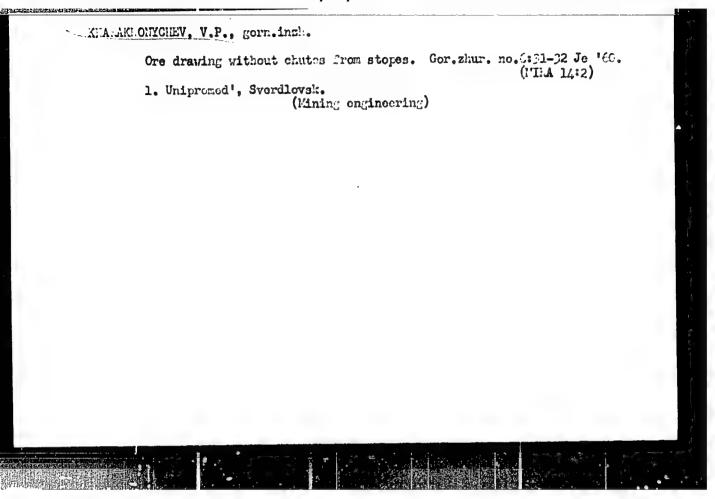
KHARAKHONYCHLV, V.P., gornyy inzhener.

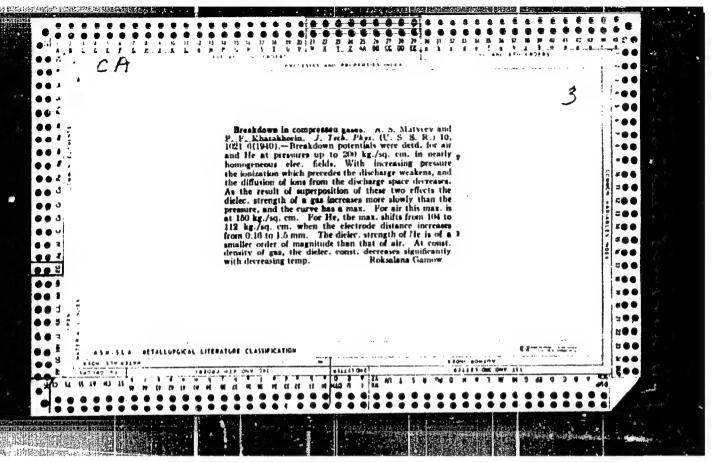
Replacing blocks in room and pillar mining by concrete pillars.
Gor.shur. no.6:17-21 Je '57.

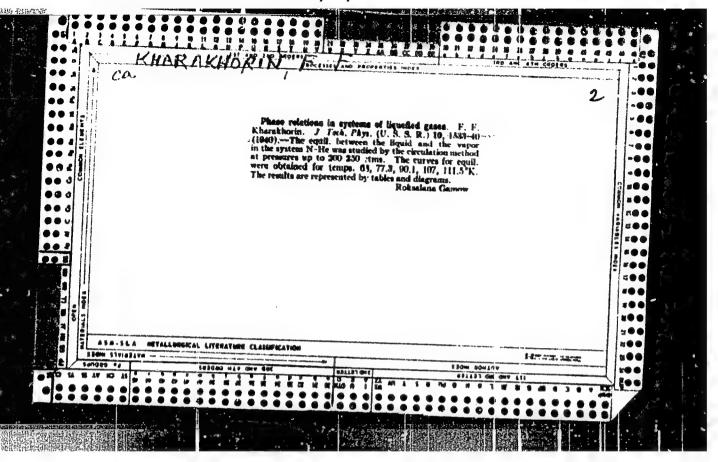
(Mining engineering)
(Columns, Concrete)

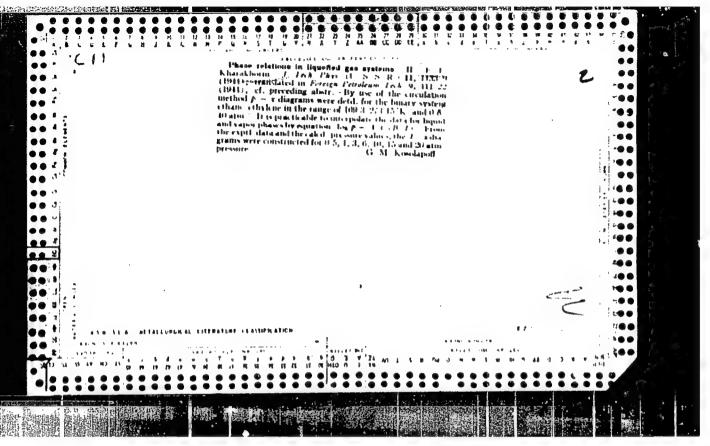
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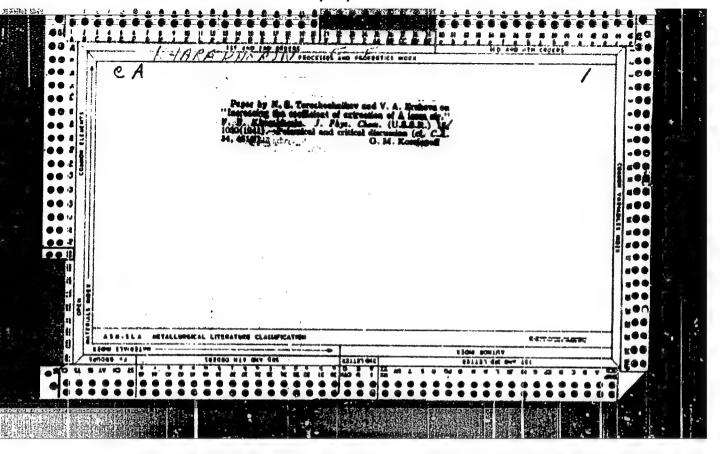
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KHOKPKNERIN Y.L.

Name: XHARAKHORIN, F. F.

Dissertation: Liquid-vapor equilibrium in the systems nitrogen-helium,

methane-helium, and ethane-ethylene

Degree: Cand Tech Sci

DEFENDED AT Affilhetten: Min Petroleum Industry USSR, All-Union Petroleum and Gas

Defense Date, Place: 1956, Moscow

Source: Knizhnaya Letopis', No 52, 1956

ALABRAQUED FOR BELEASE; 09/17/2001 CIA-RDP86-00513R000721810005

> Study of selenium regeneration from alkaline solutions. Zhur. prikl. khim. v. 31 no.5:800-801 My 158. (MIRA 11:6) (Selenium)

10(5)

SOV/170-59-5-8/18

AUTHOR:

Kharakhorin, F.F.

TITLE:

Equilibrium Between Liquid and Vapor in a Helium-Methane System (Ravnovesiye zhidkost'-par v sisteme geliy-metan)

PERIODICAL:

Inzhenerno-fizioheskiy zhurnal, 1959, Nr 5, pp 55-59 (USSR)

ABSTRACT:

The paper contains description of an improved experimental method for determination of phase equilibria in the helium-methane system under low temperatures and pressures up to 170 atm. The circulation method of investigation applied by the author was. already described by him in a previous paper / Ref 1 7. The equilibrium between liquid and vapor was studied at temperatures of 91.1; 111.5; 137.0 and 150.30K, and pressures from 5 to 170 atm. The analysis of the gas composition was performed by measuring the heat conductivity of gaseous mixtures. The results of measurements are presented in Table 1. They show that the lower the temperature, the higher is helium concentration in the gasoous mixture under any pressure. At pressures exceeding 30 or 35 atm the solubility of helium in methane is increasing with the raise of pressure and temperature. At lower pressures,

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SOV/170-59-5-8/18

# Equilibr**ARPROVED FOR RELEGASE**:p**09/17/2001**um-M**CIA**:RD**P26-0**0513R000721810005

however, the isobar of the liquid phase passes through a maximum. Figure 2 pictures isobars for 12-atm pressure and other pressures. The existence of maximum solubility should be taken into consideration in chosing optimum conditions for helium separation. It was found that the properties of the helium-methane system are qualitatively analogous to the properties of the nitrogen-helium system. The solubility of helium in liquid nitrogen, however, is 7 to 8 times as high as its solubility in liquid methans. The author thanks Professor I.R. Krichevskiy for a number of valuable advices.

There are 2 graphs, 1 diagram, 2 tables and 10 references, 5 of which are Soviet, 1 American, 1 English, 1 German, 1 French and 1 Dutch.

10(5)

05298

SOV/170-59-8-9/18

AUTHOR:

Kharakhorin, F.F.

TITLE:

The Liquid-Vapor Equilibrium in the Ethane-Ethylene System

PERIODICAL:

Inzhenerno-fizicheskiy zhurnal, 1959, Nr 8, pp 72 - 77 (USSR)

ABSTRACT:

The paper contains data of the thermodynamical working out of experimental data obtained in the course of investigations into the liquid-vapor equilibrium of the ethane-ethylene system. These experimental data, described in reference 1, embrace the range of temperatures from 169.3 to 273.16°K, the range of pressures from 0.4 to 40.6 atm, and the range of concentrations from 100% ethylene to 100% ethane. The volatility of pure ethylene was calculated by the graphical integration of Equation 2 and the values obtained were compiled in Table 1. The volatility of ethylene in its double solution with ethane was calculated by Formula 1, making use of the values found from Table 1 and experimental data on the composition of the gaseous phase /Ref 17. The results are presented in Figure 1, which shows that the solution of ethylene in liquid ethane is ideal throughout the whole range of concentrations within the range of temperatures investigated. The author concludes on the basis of the Gibbs-Dugueme equation, that ethane

Card 1/2

# APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721810005

The Liquid-Vapor Equilibrium in the Ethane-Ethylene System

05298 SOV/170-59-8-9/18

solution in liquid ethylene also obeys the law of ideal solution for all concentrations. On the basis of this conclusion, the author calculates the values of evaporation heat of ethylene and ethane from their double solutions and presents the results in Table 3 and 4 respectively.

There are: 3 graphs, 4 tables and 8 references, 3 of which are Soviet, 2 American, 2 English and 1 German.

Card 2/2

06562

10(5)

sov/170-59-9-3/18

AUTHOR:

Kharakhorin, F.F.

TITLE:

Liquid-Vapor Equilibrium in Nitrogen-Helium and Helium-Methane Systems

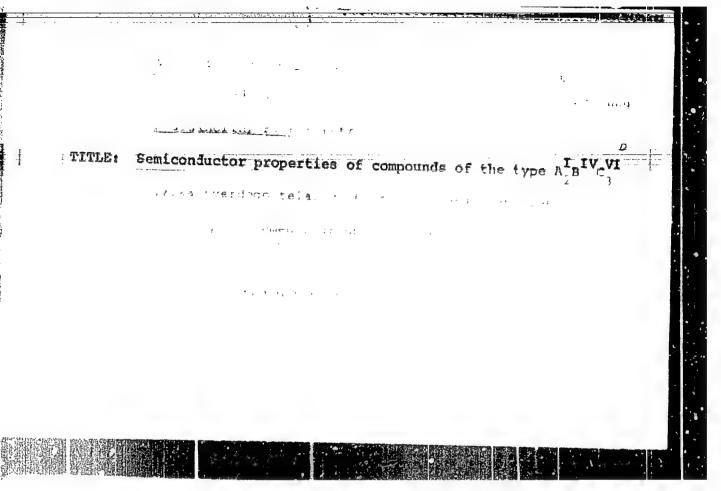
PERIODICAL:

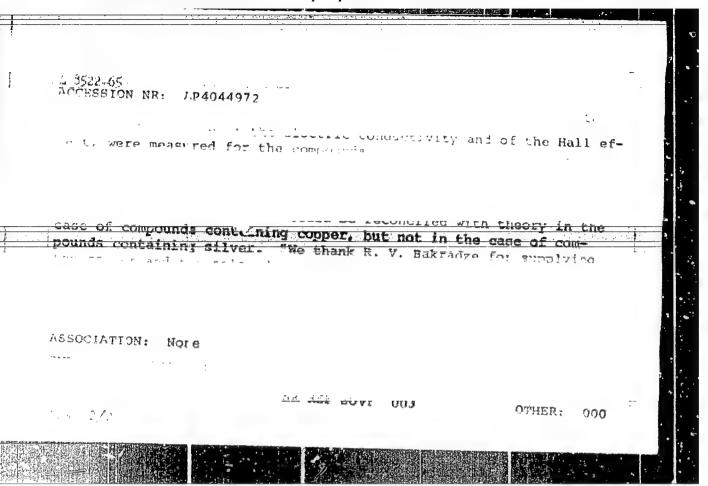
Inzhenerno-fizicheskiy zhurnal, 1959, Nr 9, pp 24-29 (USSR)

ABSTRACT:

In this paper the author performed thermodynamical treatment of experimental data, obtained previously, on equilibrium in the nitrogen-helium and helium-methane systems. He calculated the volatility of pure helium at temperatures from 60 to 160°K and at pressures from 25 to 300 atm by Formula 4, derived from the Bitti-Bridgman equation in virial form, and the results are presented in Table 1. Then the volatility of helium in the gaseous phase in the mixtures with nitrogen and methane was determined by Formula 2, and the data obtained were used for plotting the graphs of the both systems helium-liquid nitrogen and helium-liquid methane, shown in Figure 1 and 2 respectively. As it is shown by examining the graphs, at pressures exceeding 40 - 45 atm the data are satisfactorily represented by straight lines, whereas at lower pressures experimental points lie below them; thus it is proven thereby that at pressures from 40 - 45 to 215 atm the solubility of helium in liquid nitrogen and methane can be calculated by the Krichevskiy-Kazarnovskiy

Card 1/2





KHARAKHORIN, F.F.; PETROV, V.M.

Semiconducting properties of AZBIVCVI type compounds. Piz. tver. tela 6 no.9:2867-2869 S \*164.

(MIRA 17:11)

L 5217-66 ETT(p)/ETP(t)/EWP(b)
ACC NR. AP5026403 IJP(c) JĎ SOURCE CCDE: UR/0386/65/002/006/0262/026/

AUTHOR: Kurbatov, L. N.; Khalilov, P. A.; Susov, Ye. V.; Kharakhorin, F. F.

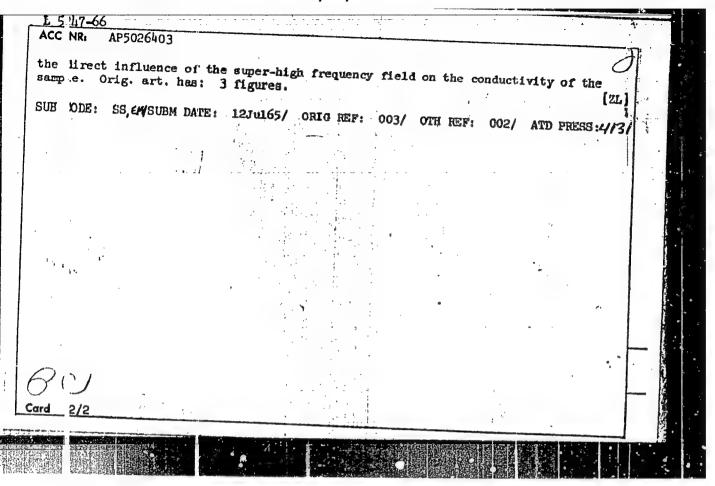
ORG: none

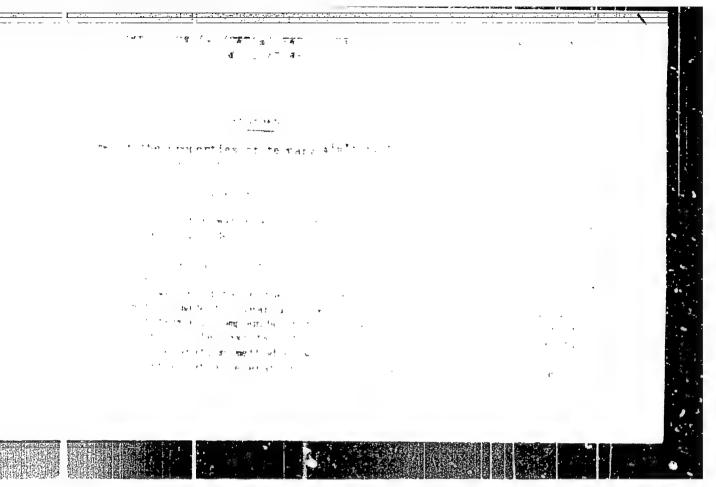
TIME: The influence of superhigh-frequency radiations on the electrical conductivity of p-type indium antimonide

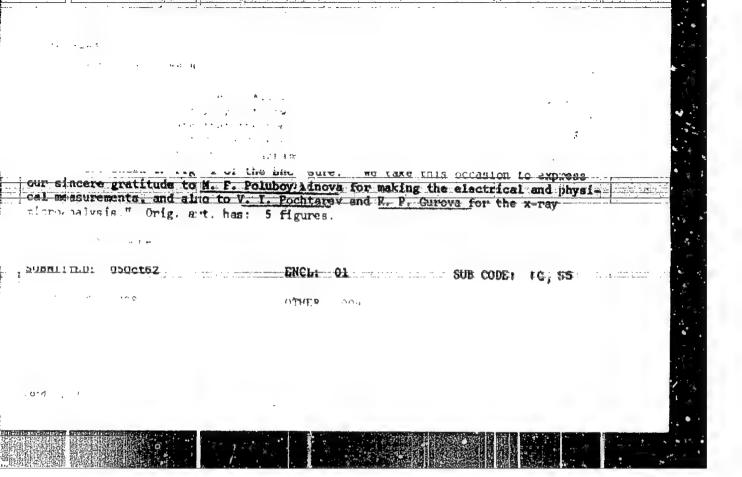
SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 2, no. 6, 1965, 262-266

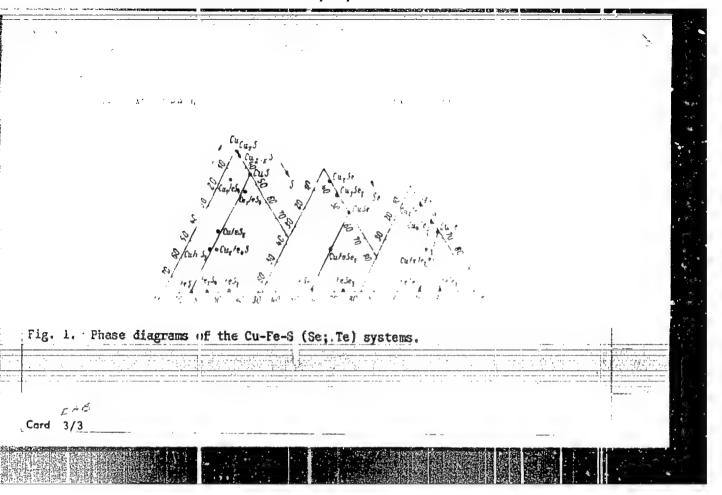
TOPIC TAGS: radiation effect, electrical conductivity, indium antimonide, field

ABSTRACT: The reduction of d-c electrical conductivity caused by super-high frequency irradiation of a density of  $P = 10^{-6} - 10^{-7}$  w-mm<sup>2</sup> in p-type single crystalline indium. antimonide has been investigated. The sample had a Hall carrier density of 7 x  $10^{12}$  to 4 x  $10^{14}$  cm<sup>-3</sup>, a Hall mobility of 2 x  $10^3$ —1 x  $10^4$  cm<sup>-2</sup>/volt<sup>-1</sup> sec<sup>-1</sup>, and a specific resistance of 4-100 chm-cm in the range of wavelengths  $\lambda = 2-30$  mm, at temperatures of '7-150K. The volt-ampere characteristic is a straight line, the slope of which does not depend on the current's direction. The curves of the temperature dependences of the response indicate that the upper limit of the effect (130-140%) coincides with the transition region of the semiconductor from hole to electron conductivity. The effect is apparently neither bolometric nor photovoltaic, but may be produced by

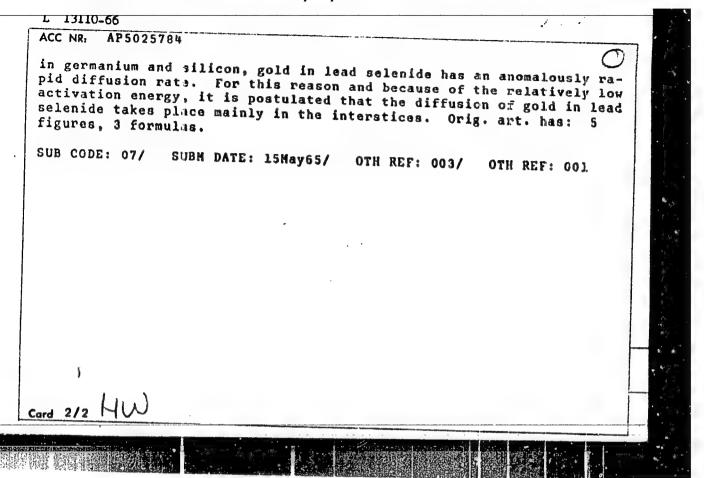




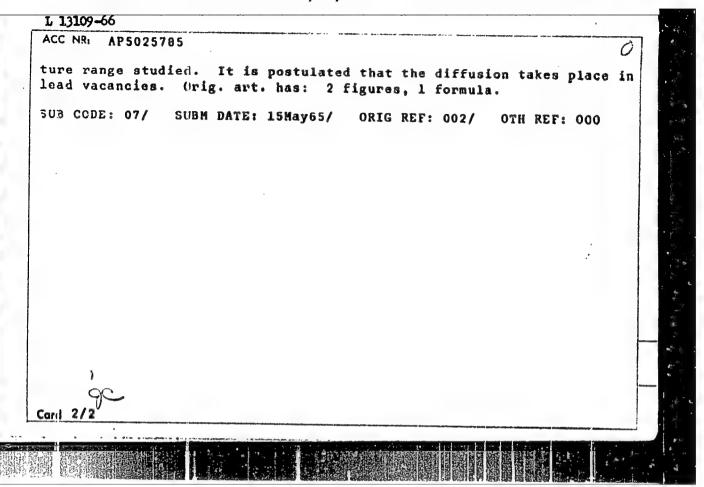




EWI(m)/ETC(F)/EWG(m)/EWP(t)/EWP(b) [JP(c) REW/JD L 13110-66 ACC NR: AP5025784 SOURCE CODE: UR/0363/65/001/009/1502/1505 Kharakhorin, F. F.; Gambarova, D. A.; Aksenov, V. AUTHOR: ORG: none TITLE: Diffusion and solubility of gold in lead selenide SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 1, no. 9, 2 1965, 1502-1505 TOPIC TAGS: gold, lead compound, selenide, metal diffusion, solubility ABSTRACT: Gold Tabeled with  $Au^{198}$  was deposited chemically on p-type lead selenide, and the samples were subjected to diffusion annealing at 300-500°C for 15 min to 20 hr. The distribution of gold was then determined by recording the gamma radiation of successively removed layers. The temperature dependence of the diffusion coefficient followed the  $D = 5.6 \cdot 10^{-2} \exp\left(\frac{0.75}{kT}\right) \operatorname{cm}^{2}/\operatorname{sec}$ The temperature dependence of the solubility of gold in lead selenide was also determined. Solubility increases with temperature in the 350--600°C range. Above 650°C, the intermediate phase Au<sub>2</sub>Pb is formed. As 546.817'231:546.59 UDC: Card 1/2



EWT(m)/ETC(F)/EWO(m)/T/EWP(t)/EWP(b)/EWA(c) L 13109=06 IJP(c) RIDW/JD ACC NR: AP5025785 SOURCE CODE: UR/0363/65/001/009/1506/1507 AUTHOR: Kharakhorin, F. F.; Gambarova, D. A.; Aksenov, V. V. ORG: none TITLE: Diffusion of tin in lead selenide SOURCE: AN SSSR. Izvestiya. Mcorganicheskiye materialy, v. 1, no. 9, TOPIC TAGS: metal diffusion, tin, lead compound, selenide, single crystal, electrodeposition ABSTRACT: Tin labeled with Snll3+123 was electrodeposited on n-type lead selenide single crystals. Diffusion annealing lasting from 0.5 to 37 hr was carried out at 510-880°C in quartz ampoules filled with argon at 0.5 atm. Layers from 10 to 50  $\mu$  thick were then removed and their radioactivity was determined. The diffusion coefficients are given by  $D = 1.2 \cdot 10^{-4} \exp\left(-\frac{0.81}{kT}\right)$ , cm<sup>2</sup>/sec Their values ranged from  $5.5 \cdot 10^{-12}$  to  $3.4 \cdot 10^{-10}$  cm<sup>2</sup>/sec in the tempera-UDC: 546.817'231:546.811-121 Card 1/2



MHARAKHORIN, F.F., ROYAKINTSEV, P.K., PETROV, V.M.

Alloys of the composition Cdo,05Hgo,95Te. 12v. AN SSSR.

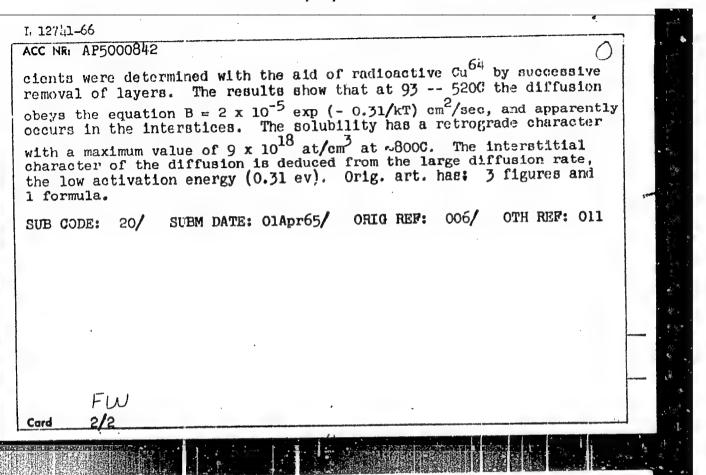
Noorg. mat. 1 no.12:2167-2169 D 165. (MIRA 18:12)

1. Submitted July 6, 1965.

#### "APPROVED FOR RELEASE: 09/17/2001

#### CIA-RDP86-00513R000721810005-7

I 12 1/1-66 ENT(m)/ETC(f)/EWG(m)/EWP(t)/EWP(b) IJP(c)
ACC HR. AP5000842 SOURCE CODE: UR/0187 1)/EWP(t)/EWP(b) IJP(c) 3PM/JD SOURCE CODE: UR/0181/65/007/012/3481/3484 AUTHORS: Kharakhorin, F. F.; Gambarova, D. A.; Aksenov, V. V. To provide any order property and the contract of the contract ORG: None 4.1 TITLE: Diffusion and solubility of copper in lead selenide SOUPCE: Fizika tverdogo tela, v. 7, no. 12, 1965, 3481-3484 TOPIC TAGS: physical diffusion, copper, lead compound, single crystal, selenide, semiconductor conductivity, solubility ABSTRACT: This is part of a systematic investigation of diffusion and the solubility of impurities in chalcogenides of lead. The article reports the results of the behavior of copper in single-crystal lead selenide at temperatures 93 -- 520C. The tests were made on lead selenide previously synthesized by the Bridgman-Stockbarger method in quartz ampoules of special shape. The single crystals were grown 11 -- 15 mm in diameter and up to 60 mm long. The crystals were cut perpendicular to the generatrix into discs 1 -- 2 mm thick. The measured samples were of the n-type conductivity with specific resistivity  $\sim 4$  x  $10^{-3}$  ohm-cm and carrier density  $\sim 4 \times 10^{18}$  cm<sup>-3</sup>. The diffusion coeffi-1/2



SCHASTLIVYY, V.P.; KHARAKHORIN, F.F.

Properties of ternary chalcogenide compounds of the AIB VIII X<sub>2</sub> VI-type after centrifugation. Zhur. prikl. khim. 38 no.3:515-520 Mr '65. (MIR& 18:11)

1. Submitted October 5, 1962.

(A) L 13564-66 EWT(m)/ETC(F)/EWG(m)/T/EWP(t)/EWP(b)/EWA(c) IJP(c)
ACC NR: APG001234 SOURCE CODE: UR/0363/65/001/012/2167/2169

RDW/JD

AUTHOR: Kharakhorin, F. F.; Boyarintsev, P. K.; Petrov, V. M.

ORG: none

TITLE: Study of alloys of the Cdo. os Hgo. se Te system

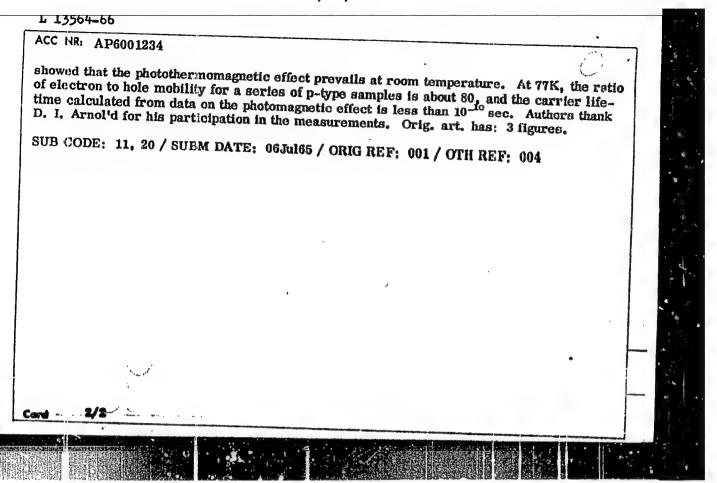
SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 1, no. 12, 1965, 2167-2169

TOPIC TAGS: cadmium alloy, mercury alloy, tellurium alloy, semiconductor alloy, electric conduction, photoconductivity, photo emf, photomagnetic effect, single crystal growth, absorption coefficient, temperature dependence, spectral distribution

ABSTRACT: Polycrystalline ingots of the alloy  $Cd_{0.05}Hg_{0.05}$  Te were synthesized from cadmium telluride and mercury telluride and used to grow single crystals by Bridgman's method. The temperature dependence of the electrical conductivity and Hall coefficient were determined. All the samples had n-type conductivity at room temperature; at liquid nitrogen temperature, most displayed p-type conductivity, but the purest ones had n-type conductivity and macceptor concentration of  $10^{16}$  cm<sup>-3</sup>. The spectral distribution of the absorption coefficient was measured on polished samples 0.1-0.2 mm thick. The dependence of this coefficient on the photon energy in the 0.13-0.16 eV range permitted the calculation of the "optic" energy gap, which amounted to about 0.07 eV at room temperature. The photoconductivity, photo-emf, and photomagnetic effect were also measured on some samples at room and liquid nitrogen temperatures. A change in the cooling conditions (immersion in water)

Card 1/2

UDC: 546.3-19'48'49'42



L 18063-66 ENT(1)/ENT(m)/T/ENP(t) IJP(c) JD

ACC NR: AP6003361

SOURCE CODE: UR/0363/66/002/001/0032/0036

AUTHOR: Kharakhorin, F. P.; Poluboyarinova, M. F.; Vinogradova, V. G.

ORG: none

TITLE: Effect of certain factors on the process of change of the conductivity sign during thermal treatment of n-InSb A

during thermal creatment of n-this

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 2, no. 1, 1966, 32-36

TOPIC TAGS: electric conductivity, indium compound, antimonide, metal diffusion

ABSTRACT: The study was made in order to determine the effect of thermal treatment under various conditions on the properties of n-type indium antimonide. Under suitable conditions of treatment (temperature, annealing time) in quartz ampoules (in a vacuum, in helium, krypton, and antimony vapor), the n-InSb samples with carrier concentrations of  $10^{13}$ - $10^{14}$  cm<sup>-3</sup> change their conductivity to hole conductivity over their entire volume while keeping approximately the same carrier concentration. The complex process of n-p transformation of InSb is thought to be due to the simultaneous and probably mutual influence of three factors, of which the

Card 1/2

UDC: 546.682 861-162:537.311.33

L 18063-66

ACC NR: AP6003361

predominant one is the migration of rapidly diffusing acceptor impurities over the surface and volume, the two others being the exodiffusion of antimony giving rise to acceptor levels in the sample, and the exodiffusion of indium. From the rate of displacement of the front of sign change, the limits of the diffusion coefficients of acceptor impurities were found to be 2.5-7.0 x 10<sup>5</sup>. On the basis of these values, it is concluded that copper is the main impurity responsible for the process of conductivity sign inversion in indium antimonide. Orig. art. has: 3

SUB CODE: 11,20 / SUBM DATE: 26Jun65 / ORIG REF: 007 / OTH REF: 004

Card 2/2500

#### "APPROVED FOR RELEASE: 09/17/2001

#### CIA-RDP86-00513R000721810005-7

L 174(7-66 EMT(m)/EMG(m)/EMP(t)/ETC(f) IJP(c) RDM/JD ACC NRI AP6007247 SOURCE CODE: UR/0363/66/002/002/0245/0248 AUTHOR: Kharakhorin, P. F.; Glukhov, A. A.; Kuznetsova, Ye. S.; Potapov, V. I. ORG: none TITLE: Some properties of tellurium doped indium and gallium arsenides 55, 27 55,27 SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 2, no. 2, 1966, 245-248-TOPIC TAGS: semiconducting material, gallium arsenide, indium compound, indium arsenide, single crystal, electric property, activated crystal, tellurium activator ABSTRACT: Electron carrier concentration in relation to Te dopant content in the charge and Hall mobility of electrons in relation to the carrier concentration have been studied in indium arsenide and gallium arsenide single crystals/prown by the Czochralski-Gremme mayer technique and, in the case of GaAs, by oriented crystallization. This latter technique was used to exclude interference of Si acceptor impurity (from the quartz container) with electrical characteristics of GaAs. In the Czoc) ralski process, 99.99% Te was introduced directly into the melt. Hall coefficient and resistavity were measured at 300K. In both indium and gallium argenides, carrier concentration increased with the increase in Te content of the charge up to a certain value ("saturation" point), then leveled off. However, the "saturation" point was reached with ten times higher Te content in InAs than in GmAs. UDC: 546.682'191+546.681'191+546.24 Card 1/2

#### "APPROVED FOR RELEASE: 09/17/2001

#### CIA-RDP86-00513R000721810005-7

L 17407-66 ACC NR: AP6007247 Consequently, the limit (maximum) carrier concentration was about an order of magnitude higher in InAs than in GaAs (~2 x 10<sup>19</sup> versus 3.1 x 10<sup>18</sup> at/cc). data were in satisfactory agreement with the literature. Presumably, the "saturation" in carrier concentration was reached at a point when Te atoms form electrically inactive Te-Te bonds. The Hall mobility in both arsenides studied displayed a similar pattern of gradual decrease with increased concentration. A wide dispersion of mobility data at a given carrier concentration for GaAs crystals prepared by Czochralski technique and by oriented crystallization was explained by the compensating effect of the uncontrollable acceptor impurity. Orig. art. has: 5 fig-[JK] ures. SUB CODE: 20 SUBM DATE: 12Jul65/ ORIG REF: 002/ OTH REF: 007/ ATD PRESS: 4206 Fure metal 44,18

KURBATOV, L.H.; KHALILOV, P.A.; SUSOV, Ye.V.; KHARAKHOEIN, F.F.

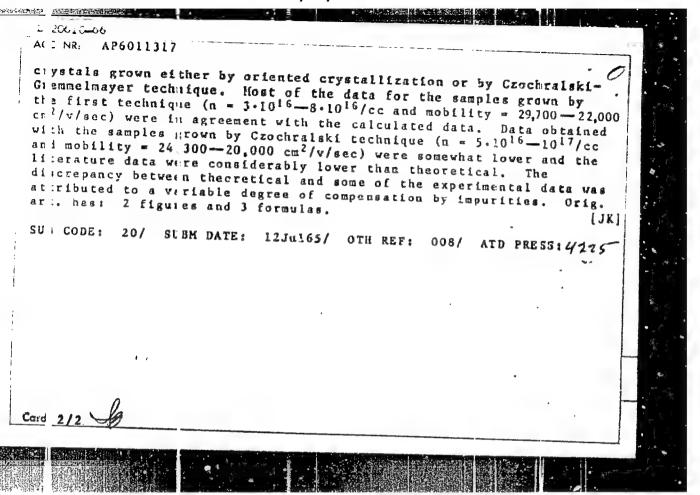
Effect of ultrahigh-frequency radiation on a-type indiam antimonida. Pist. v red. Zhur.eksper. i teor.fiz. 2 no.6:262-266 S \*65. (MIRA 18:12)

I. Submitted July 12, 1965.

KHARAKHORIN, F.F.: CAMBAROVA, D.A.; AKSENOV, V.V.

Copper diffusion and solubility in lead selenide. Fiz. tver.
tela 7 no. 12:3481-3484 D \*65 (MIRA 19:1)

1 20610-66 EWT(m)/EWP(t) IJF(c) JD ALC NRI AP6011317 SOURCE CODE: UR/0363/66/002/003/0461/0463 AUTHOR: Kharakherin, F. P.; Kuznetsova, Ye. S.; Potapov, V. I.; Glukhov, A. A. OfiG: none TITLE: Relation between mobility and concentration of carriers in SCURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 2, no. 3, 1966, 461-463 TOPIC TAGS: indiam compound, arsenide, indiam arsenide, semiconductor single crystal, electron mobility, carrier concentration AESTRACT: Variations of Hall mobility at different carrier (electron) concentrations (n = ND + NA) in the  $4 \cdot 10^{15} - 10^{17}$ /cc range have been stidied at 300K in indium arsenide, as one of the most promising AllIBV compounds. The theoretical plot of mobility versus n was calculated using the Brooks formula for uncompensated (NA " 0) and co spensated materials which cover concentration regions with nondegenerited and weakly degenerated states, respectively. Comparison was male of the calculated data with the experimental data from literature an with the authors' own data. The latter were obtained with single Car. 1/2 UDC: 546.682'191:537.311.33



# "APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000721810005-7

 $L_{3:20L3-66}$  EWT(m)/EWP(t)/ETI IJP(c) JD

ACC NR: AP6013335

SOURCE CODE: UR/0363/66/002/004/0582/0584

AUTHOR: Kharakhorin, F.F.; Kuznetsova, Ye. S.; Glukhov, A.A.; Potapov, V.I.

25 B.

ORG: none

10 2

TITLE: Purification of ursenic by sublimation

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 2, no. 4, 1966, 582-584

TOPIC TAGS: arsenic, sublimation, metal purification

ABSTRACT: A process and the corresponding equipment have been developed for purifying arsenic by sublimation. Usually, one or two sublimations are performed, impurities of low vapor pressure such as copper, iron, and aluminum being thus removed. More sublimations are required to remove impurities having a substantial vapor pressure (zinc, eadmium, sulfur, selenium, tellurium). The process avoids contamination of the arsenic by eliminating its transfer from one ampoule to another. Radioactivation analysis has shown that after 4-5 sublimations, for a threefold decrease in the total impurity content, the amount of sulfur decreased by a factor of 6-10. Arsenic obtained after five sublimations was used to synthesize indium arsenide with a carrier concentration of  $4 \times 10^{16} \,\mathrm{cm}^{-3}$  and a mobility of 29,000 cm<sup>2</sup>/V sec at 300K, which also indicates that the Card 1/2

# "APPROVED FOR RELEASE: 09/17/2001 CIA-F

L 32043-66

ACC NR: AP6013335

total impurity content decreased by a factor of about 3. Orig. art. has: 4 fig. and 1 table.

SUB CODE: 11 / SUBM DATE: 14May65 / ORIG REF: 001 / OTH REF: 002

Card 2/2

# "APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000721810005-7

L 32057-66 EWT(m)/EWP(t)/ETI IJF(c) RDW/JD ACC NR: AP6013355 (N) SOURCE CODE: UR/0363/66/002/004/0772/0774

AUTHOR: Annamamedov, R.; Berger, L. I.; Petrov, V. M.; Kharakhorin, F. F.

ORG: Institute of Chemical Reagents and High-Purity Substances, Moscow (Institut khimicheskikh reaktivov i osobo chistykh veshchestv)

TITLE: Optical and photoelectric properties of the ternary semiconducting compounds Cu3AsSe, and Cu3SbSe,

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 2, no. 4, 1966, 772-774

TOPIC TAGS: copper compound, arsenic compound, selenium compound, antimony compound, semiconductor crystal, photoconductivity, forbidden zone width

ABSTRACT: Continuing their systematic investigations of ternary semiconducting compounds of diamozdlike structure, the authors undertook a study of the spectral distribution of diffuse reflection and photoconductivity of the compounds  $Cu_3AsSe_4$  and  $Cu_3SbSe_4$ , polycrystalline samples being used. The apparatus for measuring the distribution of diffuse reflection and the spectral distribution of the photoconductivity is described. The shape of the curves of diffuse reflection show that the compounds studied are semiconductors. At room temperature, the forbidden gap width determined from the start of the linear segment is 0.88 eV for Cu3AsSe4 and 0.31 aV for Cu<sub>3</sub>SbSe<sub>4</sub>. Only the latter compound displayed photoconductivity; its forbidden gap width at 77K is about 0.65 eV, as determined from the spectral characteristic of the photoconductivity. The results indicate that the replacement of the relatively light arsenic atoms by UDC 537.311.33

L 32-157-66

ACC NR. AP6013355 APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721810005

heavier itoms (antimony) in the lattice of an  $A_3$   $^{\rm I}_{\rm B}{}^{\rm V}_{\rm C_4}{}^{\rm VI}_{\rm -type}$  compound leads to a decrease of the forbidden gap width. The authors are sincerely grateful to  $^{\rm N}_{\rm c}$ . A. Goryunova for interest in this work and to L. A. Zheleznaya and S. N. Mikhaleva for participating in the experiments. Orig. ar:, has: 4 figures.

SUB CONE:07,20 SUBM DATE: 19Jun65 / ORIG REF: 003 / OTH REF: 002

Card 2/2

## "APPROVED FOR RELEASE: 09/17/2001

## CIA-RDP86-00513R000721810005-7

L 26752-66 ENT(m)/T/EWP(t) IJP(c) JD ACC NR: AP6011482 UR/0070/66/011/002/0352/0354 SOURCE CODE: AUTIOR: Bovina, L. A.; Vinogradova, V. G.; Poluboyarinova, M. F.; Smirnova, Ye. A.; Kharakhorin, F. F. 72 ORG none 8 TITE: Sectorial structure of single crystals of indium antimonide doped with 27 SOUICE: Kristallograf ya, v. 11, no. 2, 1966, 352-354 TOP: C TAGS: indium compound, antimonide, electric conductivity, thermal emf, crystal stracure, single crystal, semiconductor conductivity, crystal growth ABSTRACT: The authors investigated the transverse inhomogeneity in the conductivity in single crystals of Andium antimonide doped with germanium to an excess-acceptor density 1012\_-1014 cm-8. The crystals were grown by the Czochralski method in the [11] and [211] directions at an inert gas pressure of 600 mm Hg. The conductivity inhomogeneity was determined from the sign of the thermal emf measured at liquidnith ogen temperature. Most crystals grown in the [111] direction had n-type regions in the center and most frequently in the uppermost section of the crystal. With increasing crystal length, the entire section assumes a p-type conductivity and only a narrow ring of n-type (0.1--0.2 mm) appears on the edges of the plates cut from the crystal. In the [211] direction only peripheral n-type regions are produced. The results are attributed to the banding of the crystallization front and to varia-Card 1/2 UDC: 548.52

ACC : NR: AP6011482												
tion of the ratio of the effective donors through the volume of the crystal. It is therefore concluded that the inhomogeneities in the conductivity type in the transverse direction of weakly doped single crystals are due to residual donor impurities. Orig. art. has: 3 figures and 1 formula.												
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L 42161-66 EWP(j)/EWT(m)/T RM/HH

ACC NR: AP6021608

SOURCE CODE: UR/0020/66/168/005/1082/1084

AUTHOR: Terent'yev, A. P. (Corresponding member AN SSSR); Rukhadze, Ye. G.; Kharakhorin, F. F.; Petrov, V. M.

41\_ 38 B

ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy universitet)

TITLE: Diffuse reflection spectra of polychelates

SOURCE: AN SSSR. Doklady, v. 168, no. 5, 1966, 1082-1084

TOPIC TAGS: chelate compound, light reflection coefficient

ABSTRACT: Considering that polychelates (high molecular compounds containing metals) are finely dispersed colored compounds sparingly soluble in organic solvents, the authors chose the method of diffuse reflection spectra to establish the correlation between the structure of a chelate or polychelate and its optical characteristics (reflection coefficient). Copper chelates were, investigated. The spectra were taken with the instruments SF-10% (visible) and IKS-12 with an IPO-12 attachment (infrared), and found to be similar for the monomer and corresponding polymer. Polychelates obtained at higher temperatures were found to have a more regular network structure than those obtained at lower temperatures. It is concluded that the study of diffusion reflection spectra constitutes a reliable method for identifying the structure of the chelates (network, linear) and determining the degree of its perfection. Authors thank O. D.

Card 1/2

UDC: 543.4.422.4

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# "APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721810005-7

IJP(c) JD . L 09067-67 EWT(m)/EWP(t)/ETI ACC NRI AP6023914 SOURCE CODE: UR/0363/66/002/007/1200/1205 AUTHOR: Kharakhorin, F. F.; Aksenov, V. V.; Gambarova, D. A.; Khrustalev, B. P.; Kul bich, R. K. ORG: none TITLE: On the mechanism of change of the conduction sign during heat treatment of n-InSb /Paper presented at the All-Union Conference on Diffusion in Semiconductors held in Leningrad on 2 December 1961/ SOURCE: AN SSSR. Izv. Neorg materialy, v. 2, no. 7, 1966, 1200-1205 SOURCE: TOPIC TAGS: indium compound, antimonide, semiconductor conductivity ABSTRACT: An attempt was made to identify the impurities in inSb on the basis of their characteristic emissions and half-lives following heat treatment of InSb in quartz ampoules activated by a flux of slow neutrons (0.9-2.4 x 1013 n/cm2 sec) in an atomic pilo. It was shown by the gamma-spectroscopic method that the radioactive impurities Na<sup>24</sup>, Cu<sup>54</sup> and Si<sup>31</sup> migrated from the neutron-activated quartz into n-InSb. The experimental data indicate that the chief cause of the change of the conduction sign during heat treatment of n-InSb is the diffusion of copper. It was shown that vacuum annealing of the ampoules prior to the activation decreases the activity of the N-InSb samples by a factor of 20 to 60. Authors thank L. A. Bovina, M. F. Poluboyarinova and V. G. Vinogradova for their assistance. Orig. art. hast 6 figures and 2 tables. SUB CODE: 20/ SUBM DATE: 270ot65/ ORIG REF: 009/ OTH REF: 001 1/1 nat *5*46.682.861.*5*32.31133

## KEARAKHORKIN, L.R.

Charles Darwin and tsarist censorship. Trudy Inst.ist.est.i tekh. 31:82-1.01 '60. (MIRA 13:8)

1. Muzey istorii religii i ateizma Akademii Mauk SSSR. (Censorship)

# KHARAKHURKIN, L. R.

Dissertation defended for the degree of Candidate of Philosophical Sciences at the Institute of Philosophy

"Conflict Over the Atheistic Ideas of Darwinism in Mussia in the Second Half of the XIX-Start of the XX Century."

Vestnik Akad. Nauk, No. 4, 1963, pp 119-145

# Hygienic evaluation of meat jelly. Trudy LSGMI 25:118-126 '55. 1. Kafedra gigiyeny pitaniya Leningradskogo sanitarnogigiyenicheskogo meditsinskogo instituta (rav. kafedroy dotsent Z.M.Agranovskiy). (700D, 'jelly, nutritional value (Rus))

GESSEN, A.I.; KLYGA, L.P.; KHARAKHORKINA. K.D.; CHISTYAKOVA, A.M.

Hygienic characteristics of nutrition at trade schools. Trudy
LSCHI 31:129-144 '56. (MIRA 12:8)

1. Kafedra gigiyeny pitaniya Leningradskogo sanitarnogigiyenicheskogo meditsinskogo instituta (zav.kafedroy dots. Z.M.Agranovskiy).

(SCHOOLS,
trade schools, nutrition (Rus))

(NUTRITION,
in trade schools (Rus))

AGRANOVSKIY, Z. M., prof.; LEBEDEVA, Ye. A.; MAYKOVA, O. P.; KHARAKHORKINA, K. D.

Nutrition in old age as a hygienic problem and methods for its combined study. Trudy LSCMI 67:8-17 '62. (MIRA 15:7)

l. Kafedra gigiyeny pitaniya s klinikov alimentarnykh zabolevaniy Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta (zav. kafedroy - prof. Z. M. Agranovskiy).

(NUTRITION) (GERIATRICS)

# KHARAKHORKINA, K. D.

Characteristics of carbohydrate metabolism in old age. Trudy LSCMI 67:54-60 '62. (MIRA 15:7)

1. Kafedra gigiyeny pitaniya s klinikoy alimentarnykh zabolewaniy Leningradakogo sanitarno-gigiyenicheskogo meditsinskogo instituta (zav. kafedroy - prof. Z. M. Agranovskiy).

(CARBOHYDRATE METABOLISM) (GERIATRICS)

KOSHINA, Z. P.; MAYKOVA, O. P.; KHARAKHORKINA, K. D.

Assimilability of proteins, fats and carbohydrates in old age.
Trudy LSGMI 67:105-113 '62. (MIRA 15:7)

1. Kafedra gigiyeny pitaniya s klinikoy alimentarnykh sabolevaniy Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta (zav. kafedroy - prof. Z. M. Agranovskiy).

> (PROTEIN METABOLISM) (FAT METABOLISM) (CARBOHYDRATE METABOLISM) (GERIATRICS)

KOSHINA, Z. P.; LEBEDEVA, Ye. A.; MAYKOVA, O. P.; KHARAKHORKINA, K. D.

Metabolism in old age with a dietary ration of products with a limited cholesterol content and plant oils partially replacing animal fats. Trudy ISCMI 67:121-148 '62. (MIRA 15:7)

l. Kafedra gigiyeny pitaniya s klinikov alimentarnykh zabolevaniy Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta (zav. kafedroy - prof. Z. M. Agranovskiy).

(CHOLESTEROL) (NUTRITION) (GERIATRICS)
(METABOLISM)

KOSHINA, Z. P.; LEBEDEVA, Ye. A.; MAYKOVA, O. P.; KHARAKHORKINA, K. D.

Metabolism in old age with a dietary ration enriched by soybean phosphatides. Trudy ISCMI 67:149-174 62. (MIRA 15:7)

1. Kafedra gigiyeny pitaniya s klinikoy alimentarnykh zabolevaniy Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta (zav. kafedroy - prof. Z. M. Agranovskiy).

(SOYBEAN AS FEEDING STUFF) (METABOLISM) (LECITHIN) (GERIATRICS)

LEBEDEVA, Ye. A.; MAYKOVA, O. P.; KHARAKHORKINA, K. D.

Metabolism in old age with a ration containing an increased quantity of milk, milk products and vegetables. Trudy ISGMI 67: 175-196 162. (MIRA 15:7)

1. Kafedra gigiyeny pitaniya s klinikov alimentarnykh zabolevaniy Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta (zav. kafedroy - prof. Z. M. Agranovskiy).

(METABOLISM) (GERIATRICS) (NUTRITION)

# KHARAKHORKINA, K. D.

Oxidative processes in the body in old age. Trudy ISCMI 67: 93-104 '62. (MIRA 15:7)

l. Kafedra gigiyeny pitaniya s klinikoy alimentarnykh zabolevaniy Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta (zav. kafedroy - prof. Z. M. Agranovskiy).

(OXYGEN IN THE BODY) (GERIATRICS)

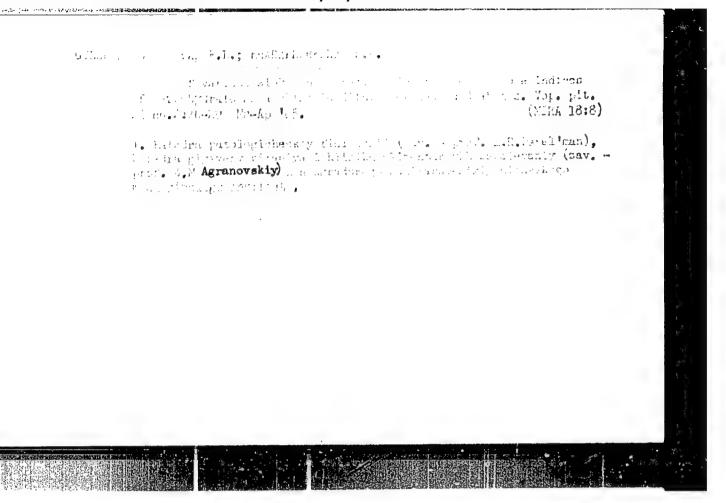
LEBEDEVA, Ye. A.; MAYKOVA, O. P.; KHAh. OKINA, K. D.

Recommendations for the rational organization of nutrition in old age. Trudy ISCMI 67:197-201 '62. (MIRA 15:7)

l. Kafedra gigiyeny pitaniya s klinikov alimentarnykh zabolevaniy Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta (zav. kafedroy - prof. Z. M. Agranovskiy).

(NUTRITION) (GERIATRICS)

# "APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721810005-7



31

B

L 31002-66 EWT(1) SCTB DD
ACC NR: AP6008101 (A)

SOURCE CODE: UR/0244/66/025/001/0079/0081

AUTHOR: Smolyanskiy, B. L.; Kharakhorkina, K. D.; Moiseyeva, M. V.

ORG: Chair of Nutrition Problems (Kafedra gigeny pitaniya); Clinic of Alimentary Diseases, <u>Leningrad Sanitation-Hygienic Medical Institute</u> (Klinika alimentarnykh zabolevaniy Leningradskogo sanitarno-gigenicheskogo meditsinskogo instituta)

TITLE: Chemical composition and ascorbic acid content in vegetables grow: in soil and by the <a href="https://doi.org/10.1007/10.1007/nc.1007/

SOURCE: Voprosy pitaniya, v. 25, no. 1, 1966, 79-81

TOPIC TAGS: plant chemistry, plant growth

ABSTRACT: This study was undertaken in order to fill a gap in the literature on the comparative nutritive values of vegetables grown in soil and by the hydroponic method. The study was made at a Leningrad Oblast sovkhoz. The hydroponic test series was based on a medium of inert keramzit or quartz gravel containing calcium, phosphorous, magnesium, potassium, sodium, nitrogen, iron, zinc, copper, etc. Specimens of tomatoes, cucumbers, cauliflower, green onions and parsley (grown simul-

UDC: 613.262:577.164.2

Card 1/2

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ACC NR: AP6008101

taneously in soil and hydroponically) were tested in the spring, fall, and winter for chemical composition (acidity, dry residue, sugar, ash content, calcium and phosphorous levels) and for vitamin C content; the results of this comparison are presented in a table. It is concluded that both methods of cultivation produce vegetables with essentially the same chemical composition, ascorbic acid content, and organoleptic properties. Orig. art. has: 1 table. [14]

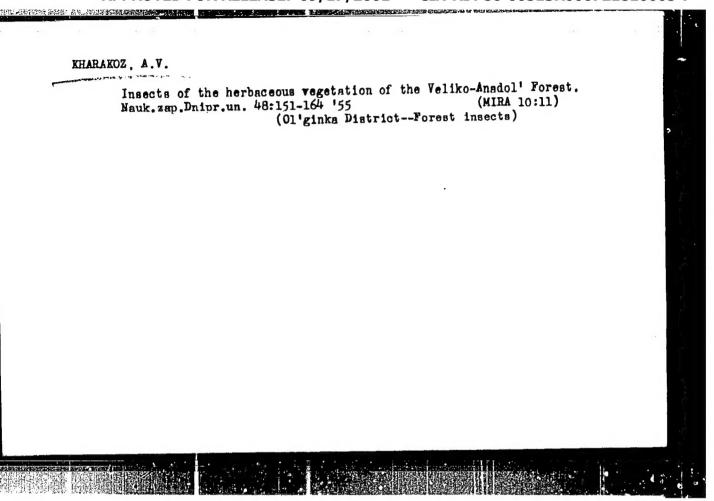
SUB CODE: 06, 02 SUBM DATE: 13Apr65/ ORIG REF: 001/ ATD PRESS: 4215

Card 2/2 2C

TERESHCHENKO, V. G., gornyy insh.; KIARAKOZ, A. M., gornyy insh.

Effect of the accuracy of heat calculations for the air is longwalls on the productivity of cooling apparatus. Ugol' Ukr. 7 no.4:13-14 Ap '63. (MIRA 16:4)

(Mine ventilation)



# "APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721810005-7

\*Ilter-press waste of sugar factories in Kirghizistan. Izv.AM
Kir.SSR.Ser.est.i tekh.nauk 2 no.3:75-78 '60. (MIRA 13:9)
(Kirghizistan--Sugar--By-products)

# "APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721810005-7

ACC NR: AT7001351

SOURCE CODE: UR/0000/66/005/000/0144/0150

AUTHOR: Bloshinskiy, S. V.; Kharakoz, A. Yo.; Ozipova, T. P.; Abramova, V. F.

ORG: none

TITIE: Carbonato mothod of separating rare earth elements

SOURCE: AN KirgSSR. Institut neorganicheskoy i fizicheskoy khimii. Issledovaniya po khimii redkikh i scputstvuyushchikh im elementov (Studies in chemistry of rare and other accompanying elements). Frunze, Izd-vo Ilim, 1966, 144-150

TOPIC TAGS: carbonate, rare earth element

ABSTRACT: A method was developed for directly separating rare earth elements from acid extracts of ore and concentration "tailings," emitting the stage of precipitation of iron and other associated elements. The method is based on the difference in the precipitation pH of carbonates of rare earth elements, aluminum, iron and other elements, and the coprecipitation of the rare earth carbonates with aluminum hydroxide. Experiments on artificial mixtures showed that 98.50% of the rare earth elements are extracted at pH 5.5, and 99.40 are extracted at pH 6. The method can also be used to separate large quantities of iron and aluminum from rare earth elements. Origant. has: 1 figure and 2 tables.

SUB CODE: 07/ SUBM DATE: 15Apr66/ ORIG REF: 002

Card 1/1

DRUZHININ, I.G.; KHARAKOZ, A.Ye.; ZINOV'YEV, A.A., red.; SEMIKINA,

T.F., red.izd-va; ANOKHIMA, M.G., tekhn.red.

[Physicochemical characteristics of the peat of Kirghizistan]

Piziko-khimicheskaia kharakteristika torfa Kirgizii. Frunze,

Izd-vo Akad.nauk Kirgizskoi SSR, In-t khimii, 1959. 95 p.

(Kirghizistan--Peat)